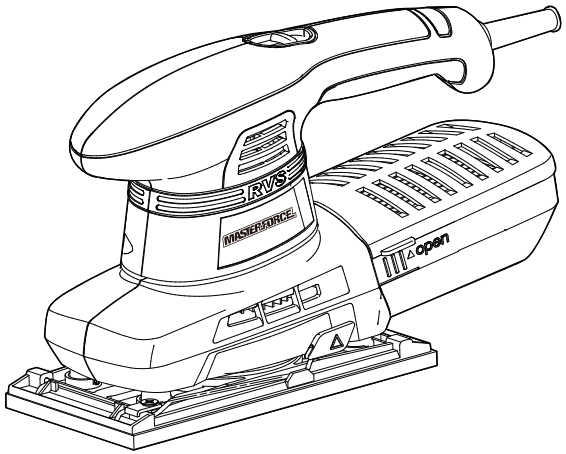
OPERATING MANUAL

1/3-Orbital Sander

241-0794



IMPORTANT :

⚠Carefully read this Owner's Manual before using this tool. Pay close attention to all **Safety Instructions**, **Warnings**, and **Caution sections**. Use this tool properly, and only for its intended use.

⚠Safety symbols in this manual are used to flag possible dangers. The safety symbols and their explanations require the operator's full understanding. The safety warnings do not, by themselves, eliminate any danger, and they are not a substitute for proper accident prevention measures.

⚠This Safety Alert Symbol indicates caution, warning, or danger. Failure to obey a safety warning can result in serious injury to yourself or others. To reduce the risk of injury, fire, or electric shock, always follow the safety precautions.

TABLE OF CONTENTS

Specification ..... Page 2
Rules for Safe Operation ..... Page 3
Description ..... Page 7
Assembly and adjustment ..... Page 8
Operation ..... Page 10
Accessories ..... Page 11
Maintenance ..... Page 12
Warranty ..... Page 12

SPECIFICATIONS

Voltage	120 V 60Hz
Input power	2.0 A
No load speed	12000 OPM
Pad Size	3-5/8" x 7-3/8"
Sandpaper attachment	Clamp
Cord length	8'
Weight:	3.8 lb

SAFETY SYMBOLS FOR YOUR TOOL

The label on your tool may include the following symbols.

V.....Volts
A.....Amps
Hz.....Hertz
W.....Watts
min.....Minutes
~ .....Alternating Current
===.....Direct Current
n_0 .....No-load Speed
⧈ .....Class II construction
.../min.....Revolutions or Strokes per minute
⚠ .....Indicates danger, warning caution. It means attention! Your safety is involved.

RULES FOR SAFE OPERATION

KNOW THE TOOL

Carefully read this operating manual and all labels affixed to the sander before using this tool. Keep this manual available for future reference.

IMPORTANT

This tool should only be serviced by a qualified service technician. For more information, call the toll free helpline at 1-866-917-4374

READ ALL INSTRUCTIONS THOROUGHLY

GENERAL SAFETY RULES FOR ALL POWER TOOLS

⚠**WARNING!Read and understand all instructions.** Failure to follow all instructions listed below may result in electric shock, fire and/or serious personal injury.

SAVE THESE INSTRUCTIONS

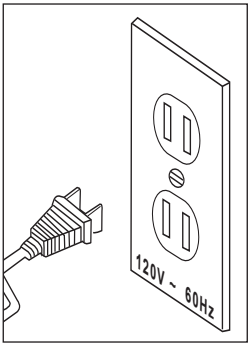
Work Area

✓ **Keep your work area clean and well lit.** Cluttered benches and dark areas invite accidents.

✓ **Do not operate power tools in explosive envirnments, such as in the presence of flammable liquids, gases, or dust.** Power tools create sparks which may ignite the dust or fumes.

✓ **Keep bystanders, children, and visitors away while operating a power tool.** Distractions can cause you to lose control.

ELECTRICAL SAFETY



✓ **Double insulated tools are equipped with a polarized plug (one blade is wider than the other.) This plug will fit in a polarized outlet only one way. If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician to install a polarized outlet. Do not change the plug in any way.** Double insulation ⧈eliminates the need for the three wire grounded power cord and grounded power supply system.

✓ **Avoid body contact with grounded surfaces such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electric shock if your body is grounded.

✓ **Don't expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.

✓ **Do not abuse the cord. Never use the cord to carry the tools or pull the plug from an outlet. Keep cord away from heat, oil, sharp edges or moving parts. Replace damaged cords immediately.** Damaged cords increase the risk of electric shock.

✓ **When operating a power tool outside, use an outdoor extension cord marked "W-A" or "W".** These cords are rated for outdoor use and reduce the risk of electric shock. The following table shows the correct size to use, depending on cord length and nameplate amperage rating of the tool. When in doubt, use the next heavier gauge. Always use UL and CSA listed extension cords.

Recommended sizes of extension cords

Tool's Ampere rating	Volts	Total length of cord in feet Cord size in A. W. G.(minimum)			
		25′	50′	100′	150′
0-6	120 V~	18	16	16	14
6-10		18	16	14	12
10-12		16	16	14	12
12-16		14	12	Not Recommended	

PERSONAL SAFETY

✓ **Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use tool while tired or under the influence of drugs, alcohol, or medication.** A moment of inattention while operating power tools may result in serious personal injury.

✓ **Dress properly. Do not wear loose clothing or jewelry. Contain long hair. Keep your hair, clothing, and gloves away from moving parts.** Loose clothes, jewelry, or long hair can be caught in moving parts.

✓ **Avoid accidental starting. Be sure switch is off before plugging in.** Carrying tools with your finger on the switch or plugging in tools that have the switch on invites accidents.

✓ **Remove adjusting keys or wrenches before turning the tool on.** A wrench or a key that is left attached to a rotating part of the tool may result in personal injury.

✓ **Do not overreach. Keep proper footing and balance at all times.** Proper footing and balance enables better control of the tool in unexpected situations.

- ✓ **Use safety equipment. Always wear eye protection.** Dust mask, non-skid safety shoes, hard hat, or hearing protection must be used for appropriate conditions.
- ✓ **Before connecting the tool to a power source (receptacle, outlet, etc.), be sure voltage supplied is the same as that specified on the nameplate of the tool**. A power source with voltage greater than that specified for the tool can result in serious injury to the user – as well as damage to the tool.

Tool Use and Care

- ✓ **Use clamps or other practical way to secure and support the workpiece to a stable platform.** Holding the work by hand or against your body is unstable and may lead to loss of control.
- ✓ **Do not force tool. Use the correct tool for your application.** The correct tool will do the job better and safer at the rate for which is designed.
- ✓ **Do not use tool if switch does not turn it on or off.** Any tool that cannot be controlled with the switch is dangerous and must be repaired.
- ✓ **Disconnect the plug from the power source before making any adjustments, changing accessories, or storing the tool.** Such preventive safety measures reduce the risk of starting the tool accidentally.
- ✓ **Store idle tools out of reach of children and other untrained persons.** Tools are dangerous in the hands of untrained users.
- ✓ **Maintain tools with care. Keep cutting tools sharp and clean.** Properly maintained tools, with sharp cutting edges are less likely to bind and are easier to control.
- ✓ **Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the tools operation. If damaged, have the tool serviced before using.** Many accidents are caused by poorly maintained tools.
- ✓ **Use only accessories that are recommended by the manufacturer for your model.** Accessories that may be suitable for one tool, may become hazardous when used on another tool.
- ✓ **Do not alter or misuse tool.** These tools are precision built. Any alteration or modification not specified is misuse and may result in a dangerous condition.

SERVICE

- ✓ **Tool service must be performed only by qualified repair personnel.** Service or maintenance performed by unqualified personnel could result in a risk of injury.

✓ **When servicing a tool, use only identical replacement parts. Follow instructions in the Maintenance section of this manual.** Use of unauthorized parts or failure to follow Maintenance Instructions may create a risk of electric shock or injury.

SPECIFIC SAFETY RULES FOR SANDER

✓ **Hold the tool by its insulated gripping surfaces when performing an operation where the tool may contact hidden wiring or its own cord.** Contact with a "live" wire will make exposed metal parts of the tool "live" and shock the operator.

✓ **Always wear safety goggles and a dust mask** when sanding, especially sanding over-head.

✓ **A suitable breathing respirator must be worn** while sanding chemically pressure treated objects.

✓ **The machine is not suitable for wet sanding.**

✓ **Do not use sand paper that is larger than needed. Extra paper extending beyond the sanding pad can cause serious lacerations.**

✓ **The dust box or a vacuum system shall be used with the tool. The dust box should be emptied frequently. Do not throw sanding dust on an open fire because materials in fine particle form may be explosive.**

✓ **Do not wet sand with this sander.** Liquids entering the motor housing is an electrical shock hazard.

✓ **Use clamps or other practical way to secure and support the workpiece to a stable platform.** Holding the work by hand or against your body is unstable and may lead to loss of control.

✓ **Use special precautions when sanding chemically pressure treated lumber, paintthat may be lead based, or any other materials that may contain carcinogens.** A suitable breathing respirator and protective clothing must be worn by all persons entering the work area. Work area should be sealed by plastic sheeting and persons not protected should be kept out until work area is thoroughly cleaned.

⚠ **WARNING! Some dust created bypower sanding, sawing,grinding, drilling, and other construction activities contains chemicals known to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:**

• Crystalline silica from bricks and cementand other masonry products, and

• Arsenic and chromium from chemically-treated lumber.

Your risk from these exposures varies,depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area,and work with approved safety equipment, such as those dust masks that are speciallydesigned to filter out microscopic particles.

DESCRIPTION

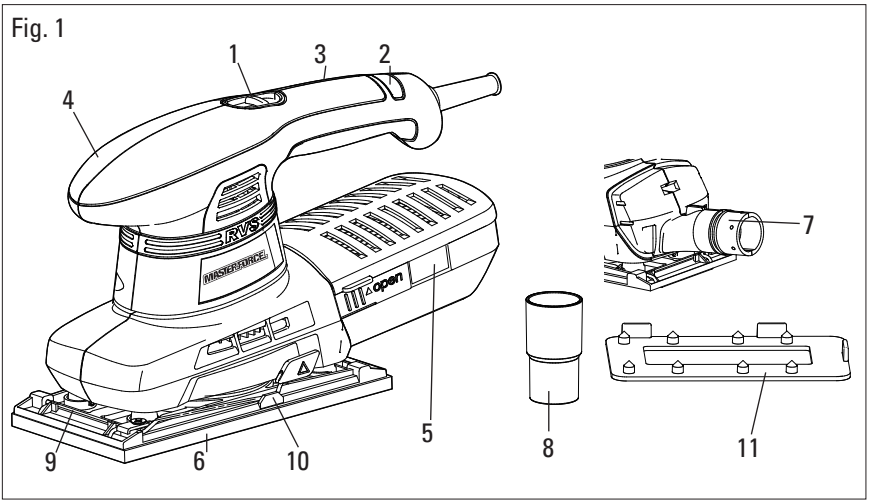
KNOW THE ORBITAL SANDER (Fig. 1)

The machine is intended for dry sanding of wood, plastic, filler and coated surfaces.

Before attempting to use this sander, become familiar with all its operating features and safety requirements.

⚠ **WARNING!** Disconnect the plug from the power source before making any assembly, adjustments or changing accessories. Such preventive safety measures reduce the risk of starting the tool accidentally.

Fig. 1



PARTS LIST

1. On/Off slide switch
2. Power-On indicator
3. Main grip
4. Front grip
5. Dust collection box
6. Sanding base
7. Dust-extraction port
8. Adaptor
9. Clamp (x 2)
10. Clamping lever (x 2)
11. Punch

ASSEMBLY AND ADJUSTMENT

ATTACHING A SANDING SHEET

Remove the plug from the power source.

Select the required grade of sanding sheet.

To attach an ordinary (non Hook & Loop type) sanding sheets, lift the clamping levers (10) up and out of the base to release the clamps (9) at both ends of the sanding base (6). (Fig. 2)

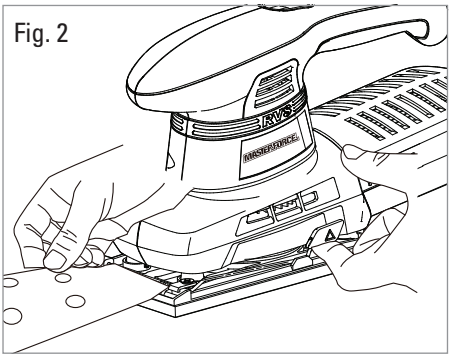


Fig. 2

Align the holes in the sanding sheet with those in the base (6), insert one end of the sanding sheet under the clamp (9) and close the clamping lever (10), draw the sanding sheet tight over the sanding base and then clamp the other end.

If the sheets do not have holes, attach as described above and use the hole punch as described below.

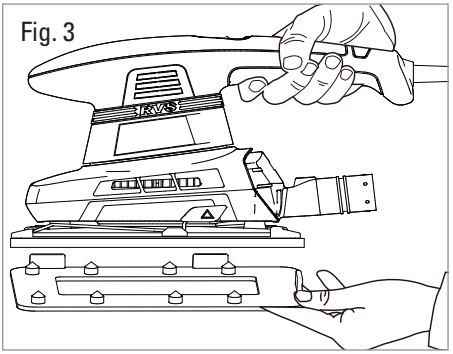
The sheet should be kept tightly clamped over the base (6); otherwise there could be excessive wear of the base materials.

⚠ **WARNING!** Do not continue to use the sander with a sanding sheet that is excessively worn or damaged.

⚠ **WARNING!** Do not use the same sanding sheet for wood and metal. Metal particles become embedded in the sanding sheet and will scour a wooden surface.

⚠ **WARNING!** Take care to regularly clean out the dust build up on the base underneath the sanding sheet and do not to allow the sanding sheet wear completely down before replacing it. Failure to observe these two precautionary measures can lead to damage to the hooks and loops on the base and the sanding sheet will not attach properly.

USING THE HOLE PUNCH (Fig. 3)



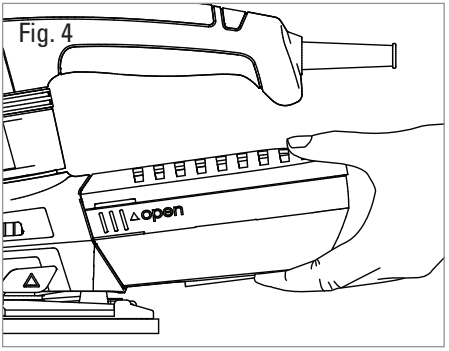
If the sanding sheet installed does not have holes it will be necessary to punch holes into the sanding sheet using the hole punch (11) provided.

Place the hole punch (11) on a level surface.

After attaching the sanding sheet, align the base of the sander (6) with the hole punch and push down on the sander until the hole punch pierces the sanding sheet.

Remove the sander from the hole punch.

DUST EXTRACTION (Fig. 4)



We recommend the use of the dust collection box or a shop vacuum at all times, and especially when sanding medium density fibre board (M.D.F).

WARNING! Do not use the dust collection box (5) when sanding metal. The hot metal particles could cause residual wood dust or the box itself to catch fire.

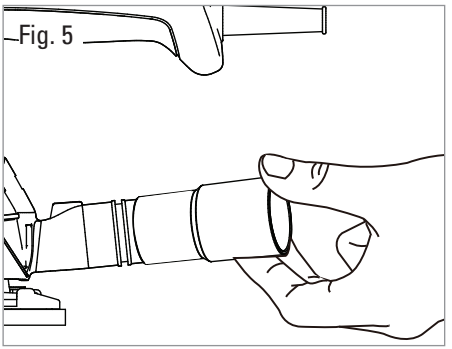
To attach the dust box (5), align the slots on the dust box with the dust extraction port (7), slide it in fully.

For efficient operation, empty the dust collection box (5) when it is no more than half full. This allows better airflow through the box.

We suggest that this cleaning is performed outside by gently tapping the filter into a plastic bag to collect the dust. Wear a mask to prevent inhalation of dust.

Do not allow water to come into contact with the filter material, as it will damage it.

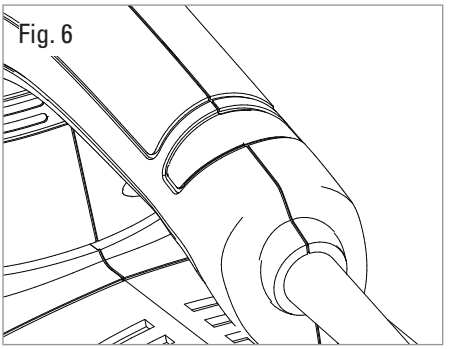
Alternatively, the dust extraction adaptor (8) can be fitted to the dust extraction port (7) to allow a dust extraction system or a suitable vacuum cleaner to be connected to the tool for a cleaner and safer work area. (Fig. 5)



Always keep the dust extraction holes in the sanding base (6) free of obstructions.

"POWER-ON INDICATOR" LIGHT (Fig.6)

The tool has a "POWER-ON INDICATOR" red light. This red light is always on when the tool is plugged into a power source.



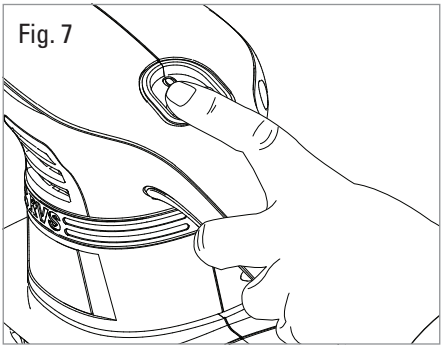
OPERATION

SWITCHING ON AND OFF (Fig.7)

Connect the plug to a suitable power source.

Always lift the sander from the work before switching on or switch off.

To turn the sander on, push the on/off slide switch (1) forward. To stop the sander, push the on/off slide switch (1) backward.



SELECTING THE RIGHT GRADE OF SANDPAPER

Different grades of sandpaper can be purchased from the store where you purchased the tool. Available grades are: Coarse, Medium and Fine.

Use a coarse grit to sand down rough finishes, medium grit to smooth the work and fine grit to finish off.

It is best to make a trial run on a scrap piece of material to determine the optimum grades of sanding sheet for a particular job.

GRIT CHART		
Grit	Type	Example of use
60 or less	Very Coarse	Material removal, heavy paint removal, shaping wood
80 – 100	Coarse	Paint removal, rough surface preparation (e.g., non-planed wood)
120 – 150	Medium	Surface preparation planed wood
180 – 220	Fine	Sanding between coats
240 or more	Very Fine	Final finishing

SANDING

The sander can be used for most sanding operations on materials such as wood, plastic, metal and painted surfaces.

Wear safety goggles, a dust mask and hearing protection.

Where possible, secure smaller workpieces to prevent them from moving under the sander.

Hold the sander, keeping it clear of the workpiece. Start the sander and gradually lower it onto the workpiece so that the entire sanding sheet surface is in contact with workpiece.

Move the sander slowly over the surface of the workpiece in a circular motion with an even, moderate pressure.

If there are still scratches on your work after sanding, try either of the following:

- Go back to a coarser grit and sand the marks out before recommencing with the original choice or,
- Try using new sanding sheet of the same grit to eliminate the unwanted marks before progressing to a finer grit and finishing the job.

ACCESSORIES

Punch plate..... 1pc

Dust box..... 1pc

Adaptor..... 1pc

Sanding paper..... 3pcs

MAINTENANCE

Check for damaged, missing, or worn parts. Check for loose screws, misalignment or binding of moving parts, or any other condition that may affect the operation. If abnormal vibration or noise occurs, turn the tool off immediately, and have the problem corrected before further use.

The tool should be unplugged from the power supply before cleaning or performing any maintenance. Using compressed air may be the most effective cleaning method. Always wear safety goggles when cleaning tools with compressed air.

Do not let brake fluids, gasoline, petroleum-based products, penetrating oil, etc., come into contact with plastic parts. They contain chemicals that can damage, weaken, or destroy plastic.

⚠ **WARNING!** When servicing, use only identical replacement parts. The use of any other parts may create a hazard or cause damage to the product.

⚠ **WARNING!** Use only accessories that are recommended for your model by the manufacturer. Accessories that may be suitable for one tool may become hazardous when used on another tool.

⚠ **WARNING!** Maintain tools with care. Properly maintained tools work to their best advantage and are easier to control.

⚠ **WARNING!** Check the power cord before each use. If it is damaged, re-place it immediately. Never use a tool with a damaged cord.

⚠ **WARNING!** To ensure safety and reliability, all repairs should be performed by a qualified service technician.

WARRANTY

3-MONTH MONEY BACK GUARANTEE:

This MASTERFORCE™ brand power tool carries our 3-Month Money Back Guarantee. If you are not completely satisfied with your MASTERFORCE™ brand power tool for any reason within three (3) months from the date of purchase, return the tool with your original receipt to any MENARDS® retail store, and we will provide you a refund – no questions asked.

3-YEAR LIMITED WARRANTY:

This MASTERFORCE™ brand power tool carries our famous No Hassle 3-Year Limited Warranty to the original purchaser. If the tool fails within three (3) years from the date of purchase, simply bring this tool and its sale receipt back to your nearest MENARDS® retail store for a free equivalent replacement within those three years. Notwithstanding the foregoing, this limited warranty does not cover any damage that has resulted from abuse or misuse of the Merchandise. This warranty: (1) excludes expendable parts including but

not limited to blades, belts, bits, light bulbs, and/or batteries; (2) shall be void if this tool is used for commercial and/or rental purposes; and (3) does not cover any losses, injuries to persons/property or costs. This warranty does give you specific legal rights and you may have other rights, which vary from state to state. Be careful, tools are dangerous if improperly used or maintained. Seller's employees are not qualified to advise you on the use of this Merchandise. Any oral representation(s) made will not be binding on seller or its employees. The rights under this limited warranty are to the original purchaser of the Merchandise and may not be transferred to any subsequent owner. This limited warranty is in lieu of all warranties, expressed or implied including warranties or merchantability and fitness for a particular purpose. Seller shall not be liable for any special, incidental, or consequential damages. The sole exclusive remedy against the seller will be for the replacement of any defects as provided herein, as long as the seller is willing or able to replace this product or is willing to refund the purchase price as provided above. For insurance purposes, seller is not allowed to demonstrate any of these power tools for you.
For questions / comments, technical assistance or repair parts –
Please Call Toll Free at: 1-866-917-4374 (M-F 8am – 6pm)

SAVE YOUR RECEIPTS. THIS WARRANTY IS VOID WITHOUT THEM.